

Claims

1. A linear motor of the moving coil type including:
 - ✓ a stationary magnets array;
 - a coils assembly movable along a mechanical guide and facing said magnet array;
 - a sensor for sensing the position of said coils assembly relative to said magnets;
 - a motion controller with power amplifier that accepts position signals from said sensor and generates currents for the energizing the coils assembly;
 - at least three stationary conductive rails parallel said guide and connected to said power amplifier;
 - at least three brush contacts that are mechanically attached and electrically connected to said coils assembly and which are sliding along said rails as the coils assembly moves;
 - said coil assembly is powered by said motion controller and amplifier via said brush contacts to generate motion that is sensed by said sensor.
2. A linear motor as in claim 1 wherein said position and motion sensor is of the cable less type.

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